Recd Febr 3

Wilmington Jan 30th 1875

My Dear Dr. Engelmann

I take the liberty of sending you a couple of Specimens of Lemna which I should be glad to have you name for me if you have time. But if not take no trouble.

Vendler is with me almost daily. I suppose you often hear from him directly. I have learned to esteem him very much.

I saw Dr. Gray for a couple of minutes last Monday as he passed through Wilmington from Washington!

A nice letter just received from Mellichamp. What a fine fellow he is!

Very truly & respy yrs Wm. M. Canby

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MISSOURI
BOTANICAL
GARDEN

Recd April 22d
and same day/

16 [illegible] [illegible]
[illegible]
17 [illegible]

Canby

Wilmington Ap. 17 1875

My Dear Dr. Engelmann,

I received your lecture on the Coniferae of Colorado as printed in the St. Louis Democrat and have read it with a great deal of interest;— all the more perhaps that part of the ground you have been over and describe is familiar to me. The only criticism I was going to make was the declaration in the opening paragraph that there were _no_ deciduous trees in the Mts. But I noticed you qualified that later. I remember in going up Pikes Peak that ~~just~~ the plateau, just at the foot of the peak proper, was covered for I should judge several square miles

Recd April 22 [illegible]

with a growth of Populus tremuloides.

I have passed the paper over to Fendler who has taken it home to read and therefore cannot now refer to it but I believe you mention Juniperus occidentalis as one of the 13 conifers of Colorado. Commons has my copy of Porter's Flora but I believe he does not give the tree in that work. I am somewhat curious to know whether several trees we saw in the "garden of the Gods" just under the first foot hill did not belong to this species. I remember Hooper, Meehan & I did think so when we saw them. Perhaps you may remember them.

I enclose two specimens of Senna which I got in Florida

S in 1859. Can you name them for me?

Have you any information of Dr. & Mrs. Gray since ~~you~~ they left Washington? I should much like to hear how they are getting on.

Fendler has been employing himself lately in a literal translation of "Faust" and informed me a few days since that he was more than three fourths done.

Yrs very truly

Wm M. Canby

Rec'd May 5
Ans Aug 15

100.0/400.0/300 2/150 4/300

Wilmington May 1st 1875

My Dear Dr. Engelmann

I certainly am the one to apologize for boring you at such a rate. I really had forgotten (having so much to think of now outside of Botany) that I had sent you the Lemnae before.

I am all the same obliged for your kindness.

I dont think Fendler is selling many copies of his work. Dr. Gray has got off several for him. As to myself I confess to being utterly unable to follow him.

Very much obliged for the Juniperus occidentalis wh. is very curious on acc't of the seeds. The ~~plant~~ tree does seem to differ a

Rec. May 5
Ans. May 12

good deal from the California plant. I hope you will soon be able to give us full descriptions of all our Coniferae wh. are so important commercially & interesting botanically.

I expect Dr. & Mrs. Gray here on Monday. The former says he is much better but still has a cough.

Our season is still very cold & backward — the trees not in leaf yet. The fruit trees show no blossoms yet.

Very truly Yours obliged
Wm M. Canby

A note from Parry this morning locates him in N.Y. Please give my compliments to Prof. Riley when you see him

him & say to him that I have found that worms of some kind seem to thrive in the tubes of Darlingtonia on the insects captured. Will get details after while.

Rec Aug 31

Wilmington Aug 27 1876

My Dear Dr. Engelmann

Your interesting letter of the 15th has remained some days unanswered on account of many engagements which prevent my devoting much time to botanical matters.

I am so glad the specimens of Isoetes melanospora which Dr. Gray sent you have done ~~travels~~ so well. Last time I could hear of any one botanizing on the summits of Stone Mt., I endeavored to get them on the search of it, & thought perhaps Mr. Allen of N.Y. would have got it when he was there, but he does not seem to have found it. Possibly when Dr. Gray asks me where he should stop in the South I mentioned that locality for.

[illegible]

history and felt very much gratified with his success in finding the little [illegible] with some other things when I got, but has not sent enough to [illegible] the value of - in particular the true [illegible] [illegible] [illegible].

[illegible] to the black mangrove, my right opinion [illegible] then true black-mangrove - not a white gray but black - so that your new name is appropriate enough. Also as to the white [illegible] concerning the [illegible] that is an oversight [illegible] your [illegible] and to [illegible] which I keep in my list with the black - "[illegible] [illegible] [illegible] [illegible]".

Thanks for the information in regard to the Botanic Garden. [illegible] [illegible] [illegible] to be kept in a [illegible] or [illegible] [illegible] state of [illegible] and [illegible] a [illegible] of [illegible] to [illegible] [illegible].

As to the Lemna and Callitriche
duplicates I remember you said that
nothing of such but if there any a [illegible]
or near your [illegible] there are several [illegible]
very numerous. [illegible] [illegible]
[illegible] on obliteration. Remember, I should
value anything from your hands.

You write of a Mr. Butler in
the Indian Territory. Is he a resident
there? I want to get into correspon-
dence with some one who can give
me specimens of the plants of the
country between Missouri & Texas. West
of the Mississippi of course. That is one
of the districts in which I am not
at supplied. Montana & Nevada are
in the same list and to a certain ex-
tent Arizona & New Mexico also. If you
can name [illegible] me in cor-
respondence with collectors from any
of these regions I should be very

separate fruits

Buckland was well when I last saw him a week or two ago — he was there at my house for some paper — so that he is still looking up the plants. I have had ~~not~~ no time this season to do any collecting and have not gathered a specimen from the vicinity.

Yours very truly,

A re-examination of the few specimens I have shows some of them black & some ash-grey.

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Recd Jun 10th 1876
Ans same day

[illegible] [illegible] and in every way [illegible] the tree. I send herewith a bunch of seeds which you can readily distinguish by the dentation of the leaves of what I have supposed might turn out Q. heterophylla. Neither of these ~~was~~ is from the tree from which I sent the specimens last spring. That is a planted tree some 30 ft. high. Meehan tells me you doubt our Q. aquatica being distinct — which I supposed that as two species were more easily determined than that & Q. Phellos & both ~~[illegible]~~ quite common in the lower county of our state - the latter extending up to this place.

As to De Candolle's & Meehan's idea of Q. heterophylla being a var. of Q. Aquatica I never could see it but I may be wrong in my ideas of the species. If it is [illegible] [illegible] which I have believed for some time it is a var: of some other species than Q. aquatica or a hybrid. There is a tree not far from this place 40 ft. high ~~which~~ the leaves of which agree with your description. In another package I send you a branch of this with young acorns and a separate leaf from lower part of ~~the~~ same tree to show the variation in dentation. I also send specimens of our Q. Phellos, Q. aquatica and of Carya microcarpa, same tree as the green specimens & nuts.

Tomorrow I expect to set out for Stone Mt. Ga. (but may be disappointed) and will gather you Q. Georgiana if I go. If anything special is needed drop me a line there as soon as this is received

Yours truly
Wm. M. Canby

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Rec Jan 21

Wilmington Jan 19 1876

My Dear Dr. Engelmann,

So far as I am able to say in regard to the Carya I should suppose that C. tomentosa was clearly distinct from C. porcina & any thin ~~few~~ husked species by the tomentose leaves and shoots &c and by the generally very thick husk and shell of fruit as well as by the shape of the fruit; - that of C. tomentosa being nearly globular or slightly oblong - that of C. porcina being almost always (with us) obovate. I have never been able to make any distinction in shape or number of leaflets. ~~As to C. microcarpa~~ I should say also that the heart wood of C. tomentosa is always a ~~fine~~ ~~cherry red~~

white color and is much better for
the use of wheelwright &c than C.
porcina which however is more dur-
able when exposed to the ~~[illegible]~~ weather
as when made into rails &c, and
which is a fine red the color of wild
cherry wood. Now C. microcarpa
comes in somewhat between these
two having the shape and general
characteristics of the fruit of C.
tomentosa but otherwise like C. por-
cina - differing from the former in the
smaller size &c of the fruit and the
tomentum of shoots & leaves &c, and
from the latter in shape and charac-
teristics of fruit. Without being able
to explain further, to my mind
as I know them here, each is a
good species.

I know but little of C. sulcata, but
if fruits according to the size of the species

~~they~~ Nuts much thicker in husk & shell than in C. alba and cannot compare with it for eating.

I am sorry I missed the oak sprouting; but they are little worth or rather not worth anything - being very small mossy sprouts not trees the highest only 6 to 8 ft high. They probably belong to the same species & only vary as plants will from seed.

I have been attacked with rheumatism in my thigh & could not get to Stone Mt. when better I hope to get in Aug.

Very truly Yours
Wm M. Canby

I send the missing sheets today. Excuse this letter which is written in the greatest haste. D. Mellichamp

ground have sent you the roots you speak of and [illegible]

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Rec'd July 13

Wilmington July 10th 1876

My Dear Dr Engelmann

I have just read over the plate and paper upon Agave and Quercus, for which please accept my thanks. I have not had time to consider the latter fully and so say nothing about it except that any one can see by a cursory examination the usual good results of careful study.

I will try to get you specimens from [illegible] in the fall.

Very truly Yrs
Wm M. Canby

Mueller calls for his extras.

Recd Aug 2d
Ans same day

Wilmington July 31st 1876

My Dear Dr. Engelmann

About 10 days since I made a short call on Dr. Gray and in talking over our proposed journey in the Mts. of Va. and N. Carolina he mentioned the fact of your proposed trip east, and that you had dropped a hint as to a possibility of your meeting us on this journey. Dr. Gray requested me to write to you giving you the details so far as we have considered them and this I had intended to do ~~th~~ a week ago but I have been so pressed by business that I have been obliged to put it off until now.

We expect to start then somewhere about the 22d to 24th prox. and to be gone about three weeks. The first objective point will be Wytheville, West Virginia. To this point we go direct by rail. I believe that Dr. Gray there (or perhaps in the very first place) intends, to get Mrs Gray to the Hot Springs on the French Broad river, where she will remain during the rest of the journey. This point is but some 20 miles, I believe, from Asheville and is an excellent botanical district. From here we shall go into whatever points in the Mts. of N.C. shall seem most desirable and accessible. So far as I am personally concerned I shall try to wind up with a visit to Stone Mtn. which I much wish to visit this fall.

[illegible] now the main thing that I am writing for is this to say how much pleasure it will give all concerned if you and Mrs. Engelmann will join us. Mrs. E. could stay with Mrs. Gray at the Springs while we men continue the exploration. I very much hope you will decide in the affirmative. Remember what a good chance you will have to examine the forests of the Mts. including Abies Fraseri which you would see in abundance on the higher Mts. The party will probably consist of Dr. Gray & yourself, Mr. Sargent, Mr. Redfield of Phila. and myself with the ladies mentioned.

When do you come to Phila.? and will you go? are the questions I should like to ~~know~~ have you answer the latter in the affirmative: and I, have only to add that if it should be convenient to you, my wife and I would be delighted to have your and

Mrs. Engelmann visit us and stay as long as you might find it convenient.

Very truly Yours

Wm. M. Canby

I got the enclosed after I had written the above. It will suit me to leave here by the 17th.

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You must remember, being "greedy," I might want I have already sent out more than two thirds of all the specimens I got. [illegible] Truly yours

Rec^d Dec 15th / Wilmington Dec. 12th 187[illegible]

My Dear Dr. Engelmann

I have your welcome note and must answer at once for if it is laid aside for a more convenient season I will wait long.

Now about that Juncus — as you thought it could not be asper I tried hard to fit it into something else but found it wouldn't go at all and that it would fit neatly in with the N.Y. specimens. I have had the single specimen for some time in my Herb. as J. asper without a sign of doubt.

Thanks for your inquiries about our baby. Mrs. Canby sends her kindest regards to yourself & Mrs. Engelmann and bids me say that our little one under the regimen of beef tea and other nourishing food is growing finely. He does not yet creep but is otherwise quite active and intelligent and is improving visibly.

I am glad to hear you are still upon the oaks. ~~But~~ As to Q. heterophylla it has always been a doubt in my mind as to whether it is a hybrid or not, the latter view predominating lately; its seeming to keep its characters distinct and unvarying over a wide extent of country (N.J. to Mo. at least) and through a considerable extent in time. I like the idea of Castanea being distinct from monticola.

I made out the N.C. Polygala to be P. Curtissii var. pycnostachya, Gray. The Caesar's Head Potentilla Dr. Gray will not pronounce upon until flowers are seen. The Stone Mt. Liatris = L. graminifolia a very peculiar variety. The Roan Mt. Solidago = S. glomerata Mx! (from the bluff.) Rudbeckia? Porteri, Gray = Gymnolomia Porteri, Gray. The Henderson Co. Helianthus I make H. atrorubens rather than var. of H. occidentalis; the Salix = S. sericea, Marsh., the Caesar's Head [illegible] = J. refracta Benth. The Houstonia of Table Rock Mt. &c = H. sessilifolia, &c.

Don't forget me for some of the Stone Mt. Acorns & young oaks when you have time. With best regards to Mrs. Engelmann. Yours truly Wm. M. Canby

Recd Feb 27th 1877
ans. [illegible]

Wilmington Feb. 20th 1877

My dear Dr. Engelmann

I have your note and answer the criticism first.

Of course you understand that the "little tree" was forty feet in height, if I used the sign (') I did it inadvertently in the carpenter's signification rather than the botanical — the sign being used for feet in one and for inches in the other.

I went up the Horn in my first trip on the East side (opposite to that we went up in) and down the same. I remember distinctly that when we came out of the woods on the "prairie" there was no coniferae. I ~~was~~ spent but a short time on the crest of the mountain and although I did go to the "high steeple" I

~~did~~ do not remember to have noticed the balsams there. You will remember that then they were all young trees and to a considerable extent ~~had~~ must have attained their growth in the eight years intervening between the two visits. All this is of very little account except as showing what I really am much inclined to believe that the forest (and especially the balsam or rather Abies nigra & Fraseri) is encroaching rapidly upon the "bald" parts of the mountain. If this be so it brings up many interesting questions especially if it also prove to be the same on the other "bald" mountains.

But to the main point in relation to Quercus Prinus its varieties and allies, I must confess that I know little with certainty; but let us take them in order, and I will give you merely the results of what *I remember* as my observations and of what

I have here by me.

Q. bicolor, in what I used to suppose its normal state, was and is quite common along the Brandywine near Chaddsford where I used to live. I enclose a couple of characteristic leaves, numbered 1. I always distinguished them from those of Q. Prinus by their being thicker, of firmer texture, broader, more irregularly sinuate and snow white downy beneath. They are generally tapering & acute at base but sometimes obtuse. The long peduncles were of course, in general, a striking distinction besides the other differences. But just by where these trees grew I remember there were others which used to puzzle me by their leaves more like genuine ~~Prinus~~ Q. Prinus palustris ! towards which they varied also in their shorter peduncles with the acorn cups less white downy. No. 2 is a leaf from a tree now destroyed which grew at she is a full inch in length - indeed I may say a full inch and a half - that is a half inch above the two arms now upon it, these arms having been about two inches above them.

One other point in relation to an Oak. I have a specimen from a tree at Salisbury Md. (leaves & branch) which corresponds exactly with Michaux's specimen of Q. falcato-cinerea, Engelm. I can't have any doubt that it is the same. And as no Q. cinerea is known within ~~[illegible]~~ hundreds of miles how came it to be a hybrid between cinerea & falcata?

I will ask Commons about these matters when I see him.

Mrs. Canby desires her respects and wishes me to say that the baby is still improving, showing some disposition to stand and almost talk; but he is still quite backward for his age. Please remember me most kindly to Mrs. Engelmann & believe me Yours truly, W. M. Canby

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Recd March 10th
Ans —— 21

Wilmington March 7 1877

My Dear Dr. Engelmann,

Yours of 23 of last month came duly but I have been very busy indeed and I hoped to see Commons also; but have waited for him in vain. Never fear that I mind your raillery - but I did want you to note the fact that I can hardly doubt that the bare spots in those mountains are lessening. I wish I knew why they were ever there and why they should not remain, now they ain't there! But to come to direct issues.

The Salisbury oak you saw when here but I suppose you may want not then particularly set on Q. Michauxii — you had better skipper on the train. I never saw that form from any other place about here; and my Chadds ford puzzle (which indeed may be no puzzle at all when looked up again) is not that at all. The leaves are thinner than either bicolor or Michauxii. But I will try to hunt it up during next season if I can get time. Oh time, time, — such an overplus of it for those who dont want it — such a lack of it for those who do.

— Yes I noticed long ago that thick furrowed bark on Q. Prinus monticola. There are hundreds of trees just out of the city on the Brandywine hills, and beyond them & that character is a marked one.

I surmise (I don't know) that the cinerea-falcata is just a var: of falcata & not a hybrid. How do you know that there are any hybrids? in the oak, I mean. Is it not after all a guess? I called the above Q. falcata var: when I gathered it. You also looked over (or overlooked) this specimen when here.

As to that tree, or ~~those~~ trees of Commons I thought them Q. imbricaria when I first saw them but suppose now they can't be that, is not the down of the under side of the leaves of imbricaria and of Commons' trees different from that of falcata? I cannot stop now to see about this.

I must look up the vernation of falcata. I don't know it.

If you insist upon Q. heterophylla

being a hybrid (which I cant admit yet) its parents are probably Q. Phellos & Q. palustris.

Haven't I written treason enough for once? I can only expect I am sure to be hung drawn & quartered by return mail.—

Truly Yours

Asa Gray

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Rec March 31st
Ans April 28

Wilmington March 28 1877

My Dear Dr Engelmann,

I have yours of 21st and now reply but not as fully as I would like to.

You may have got Polygala Sanguinea near Asheville but I am satisfied in my mind (not certain, as after ~~an~~ a re-examination, which I have not time to make) that the Polygala which we saw so common in Henderson Co. & on the Caesars Head is not that species which is common here and strongly marked in habit as well as in ~~better~~ other & better characters. It is very much like P. fastigiata (also common below here) but differs in longer wings

in the caruncle, (slightly), and
in the persistent bracts – in the
latter being like P. Nuttallii.
It is just what Vasey got
near Washington and what
I believe he said Gray called
P. Curtissii var. pycnostachya.

As soon as time permits, I
will go over my specimens &
reexamine & make notes for
you; and I think I can send
you good specimens of P. fastigiata
& other species if you want them.
In my bailiwick (parts of N.J.
and Del.) we have the following
species; lutea, ramosa, cymosa
incarnata, sanguinea, (& a white
flowered var.) fastigiata, Nuttallii
cruciata, brevifolia, verticillata, am-
bigua, Senega, & var latifolia.

I got not specimens of the

Hypericum from Kentucky that you mention from you, but you gave me one of what I suppose to be a var. of H. prolificum. Very likely your plant was H. dolabriforme which I have seen growing plentifully in the vicinity of Mammoth Cave. The "hatchet shaped" petals and irregular sepals are very marked.

Dr. Gray thought the large brown Mt. Solidago was S. thyrsoidea but finally acknowledged that it corresponded exactly with his ~~sp~~ brown specimens from Grandfather Mt. (see JES. No. 2 p. 208) of S. glomerata. S. Spithamaea too I got in plenty. But I don't think I have the one you mention among mine. It reads (your description) very much like a

smooth form of S. puberula, Nutt.
I did get one however that bother-ed me for some time for it was almost smooth, evidently belonging to the Virga-aurea section and as I thought the sub-section glomeruliflorae; after some examination I found the leaves were somewhat scabrous, above and then I found it was a smooth glomerate-flowered form of S. patula; in fact I suppose the var: strictula Syn. Fl. 2. p. 213.

I suppose there are oak hybrids, but I don't know it - nor does any one absolutely I suppose. I joked with you about it remembering how you were down on somebody last summer who was too certain of a thing he thought must be so but couldn't prove it. Somehow I can't feel

Rec Feb 21

Princeton [illegible]

Feb. 11 [illegible]

Dr. Geo. Engelmann

It was very pleasant to get a note from you and to hear of your welfare. I [illegible] many thanks for your [illegible] on Oak names and Carex etc which are duly appreciated. I [illegible] think that [illegible] a new [illegible] of the Oak. [illegible] those to be [illegible] in the [illegible] of [illegible] in the [illegible] hybrids.

Thanks too for your kind words [illegible] and [illegible] in [illegible] [illegible] [illegible] the [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] disappointment and [illegible]

[illegible]

about him as he seemed at times to gain very little and at others ~~seem~~ to be better. But all the Physicians we have consulted seem to be of the opinion that he is right in every respect and backward from retarded development.

Do you know such a thing as a specimen of Boltonia latisquama? I find what seems to be this among a lot of B. glastifolia from Ills. & Texas. This seems to have distinctions in the achenia so sufficient to warrant its rank as a species. If you have anything of the kind a single head sufficiently ripe to show the achenia or even one or two of the latter would be thankfully received.

Mrs. Curtis desires me to send her kind regards to you & Mrs. Engelmann in which I heartily join. I am expecting to go to Washington tomorrow for a day or two & next week to Carolina.

Very truly Yours,
M. A. Curtis

Rec April 29
Ans — 30

Wilmington Apr [illegible]

My Dear Dr. Engelmann —

Thinking over the Lemna or rather the Wolffia matter I remember that I collected on "Potter's Creek" Wilmington Isle some specimens of Azolla which had perhaps as much Lemnaceae in it, I enclose a bit of it and if you can see the Lemna L. valdiviana minor polyrhiza and Wolffia [illegible] ~~in~~ it I can send you some more. If there are then would you be so good as to ~~send~~ mark a specimen of each on the paper and return it to me and I will forward the other specimens.

I also enclose a Lemna from Manatee, Florida, called L. minor which I take to be minor but should be glad to have authority for.

I hope to get and send specimens of

the Bundle for Carya microscope [illegible]

If the bundle comes without further notice it will be that.

Ever truly

Wm M C

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Rec April 29
a—— 30

Wilmington Ap. 26th 1878

Dear Dr. Engelmann,

Yes, I sent you twigs of C. amara - that I see plain enough now - and I shall know it in future though I ought to have known it before. It is common enough here and well known in fruit. It generally grows on bottom lands, but the tree I took the twigs from was away up on a rocky hill - & so I mistook it for another one of previous. So it don't touch really "the issue between us". But in truth I am becoming more and more persuaded that your view is right, though when I rather advocated it to Sargent he stoutly rebutted. But now I send you twigs collected today in groups numbered 1, 2, 3, 4 &

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Now please tell me the species – and then I will tell you about the trees.

Very truly yours
Wm M Canby

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Rec July 2d

Wilmington June 29th 1878

My Dear Dr. Engelmann

Your kindness in sending me the Mohr's Baptisia is duly appreciated and reminds me ~~to~~ that I have not answered your note of Jun 19th. I have been very busy preparing trip to a point we once reached together - viz. Greenville S.C.!. Business of my R.R. takes me there and I return as I have [illegible] to [illegible] a [illegible] [illegible] into Baptisia, and especially to try to clear up Dr. Croom's B. [illegible].

But I ~~[illegible]~~ do not expect to do much at Baptisia until after July so if you are willing to trust them I would like to keep your specimens until I can compare them with some in the Phila. Acad. & perhaps in [illegible] & [illegible], I will take good care

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

of them & dispose of them as you desire.

I start tomorrow night for the South.

Coulter writes me that he will issue our new species in a slip and publish probably in the Aug number. This will bring them together. They seem different from Leucantha as you say & mine is totally distinct from any other species & very remarkable.

Poor Parlatore could not do much with some or many of the Conifers and not much wonder, as you have such a hard time: their nearly allied are singularly difficult to distinguish in many cases; often that almost indescribable thing we call habit comes into play and does for the trees but not for Herb. specimens. I will write on my return. Very truly Yours

Rec June 8th
Ans — 19.

Wilmington June 6th 1878

My Dear Dr. Engelmann

I propose to publish a new species of Baptisia from Florida in Bot. Gazette next month. May the not your new species go in at the same time. Dr. Gray wants me to write out a kind of "Synopsis" of the species, but at present I have not specimens enough at hand nor are those of Phila. &c. sufficient. But I hope to get them the coming season and have written to various quarters. Writing in the above way to the Gazette now will give me an additional chance. If you will allow me to put yours in with mine as coming (the name and description I mean) from you, & giving you and [illegible] the [illegible] credit I should be glad, but if considered while saying this I want to leave you at free liberty to do as you think best about it.

The Arkansas B. lanceolata is somewhat different as you say from the Atlantic coast plant. but I have no good specimens of either. Most of the species seem to be well marked but some as for instance B. Lecontei are not well enough known. Then B. leucantha & B. leucophaea seem to vary somewhat.

By the way Butler sent out a yellow flowered species in his collection but I take that to be what he calls it B. sphaerocarpa Nutt.

About Vitis I don't think we have [illegible] them, I feel quite certain that I saw it [illegible] in the [illegible] river in W. Va. when we were there in 1876. V. cordifolia I think we have in plenty and I will look after the stipules as you suggest as I may have opportunity. I notice a writer in the Bot. Gazette of Jan. speaks of the flora of the basin of [illegible].

I have a letter from Fendler which worries me. I will enclose it in this; please return it when read. It is outrageous that the noble an humane sensitive man should be subjected to such ~~and~~ trouble as this. I wish something could be done for him though I don't see what can be.

Yours very truly,

Wm. M. Canby

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Rec Feb 3
Ans — 5

[illegible] Dec [illegible]

Dear Dr. [illegible],

I return by [illegible] today the specimens of [illegible] which [illegible] at the end [illegible] I have [illegible] commencement [illegible] of the [illegible] little [illegible] to attend to botany [illegible]

[illegible]

I am very much obliged to you for allowing me to keep them so long. I have [illegible] specimens [illegible] towards the end of [illegible]

[illegible] the [illegible] and the [illegible] You will [illegible] will see that there are [illegible]

[illegible]

[illegible] of the [illegible] [illegible] of [illegible]

[illegible] I have noticed [illegible] [illegible] of

the flowers [illegible] [illegible] [illegible] in the [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] I do not think the [illegible]

to the [illegible] of the flowers [illegible] [illegible] [illegible] be

[illegible] position.

I have been [illegible] [illegible] that

you have [illegible] [illegible] and [illegible] [illegible]

[illegible] [illegible] the [illegible].

[illegible], [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] might [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

flowering [illegible] [illegible] [illegible] [illegible]

[illegible] [illegible].

All [illegible] [illegible] [illegible] [illegible]

[illegible]

Very truly yours,

Wm. M. Canby

Rec Jun 2d

Wilmington May 29th 1879

My dear Dr. Engelmann,

It would give us the greatest pleasure to see you again and your son also.

I am just off with Gray Redfield and Sargent for North Carolina to be gone a month. Mrs. Canby is in Ohio with our children and will not return until about Aug 1st. If she were here she would join me in kindest regards to you.

Finally I hope that the proposed change of air may benefit your son.

Truly Yours

W. M. Canby

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Colonnade Hotel
Cor. 15th and Chestnut Sts.
Philadelphia.
John Crump Proprietor.

Saturday ~~187~~

My Dear Dr.,

Since I saw you I have attended a business meeting and find that a very important engagement has been made for me in this city on Monday morning. I think however that this will leave me free for Monday afternoon and Tuesday. At any rate I will see you sometime ~~b~~ before 4.15 P.M. or rather early enough in the afternoon or morning to give you time for preparation. I will get Commons if possible and if he is at home think there will be no difficulty.

If we go in the afternoon we shall have until 5 P.M. next day to look around & if the weather is fav-

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able have no doubt that you will see many plants & trees that will interest you.

It will be necessary to allow a full half hour to make the train at Vine St. Ferry from this Hotel. The afternoon train leaves at 4.15. the morning at 8 o'clock.

Yours sincerely

Jno M. [illegible]

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Rec Febr 4

Wilmington Feb. 1° 1882

My Dear Dr. Engelmann,

It gave me the sincerest pleasure to hear from you again especially as by the tone of your letter I should take you to be in good health and spirits

I recollect nothing besides the Amphianthus which grew in those little depressions on Stone Mt. with the Isoetes.

Very rarely; on the occasion of a strong S.E. wind, the water may be slightly brackish where I know of I. riparia growing. I think that you once went with me to our locality on the Delaware. I have always found it growing above low tide and some distance below high tide mark, the bulbs imbedded in gravelly soil with two or three inches of tidal mud deposit on top of this. When the

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tide is out, those portions of the fronds above the mud spread out flat, like the spokes of a wheel, on the mud. This is apt to be the case also with I. Saccharata; while so far as I have observed in I. Engelmanni and the var: valida the portions above water are apt to be more nearly erect though spreading somewhat like the upper part of a funnel. Sometimes they are wholly erect. In the former state, and indeed in both, they resemble some of the bunches of the Junci which grow with them.

The plants growing with I. Engelmanni vary according to locality. In one pond where the var: valida grew (now filled up & locality destroyed) there were the larger & coarser Junci - J. acuminatus? or J. Canadensis?) and a very large form of Hydrocotyle umbellata having sometimes leaves 2 inches in diameter on petioles 18 to 24 inches long. One of our best localities, for the species was in ditches in a small sphagnum swamp where was growing many of the plants usually found in such places Arethusa Helonias bullata Viola lanceolata Lycopodium clavatum &c. &c. and in the thicket near by Magnolia glauca Rhus venenata, &c. The var: valida of which I once sent you a very large specimen grew in a ditch by the side of a railroad its principal associates being Junci, Carices, of the ovales and acutae groups, Polygonum arifolium, &c.

I am always glad to answer any of your questions that I can. Surely all interested ought to do this much for you when you have done and are doing so much for us.

I have to attend to business more or less every day but am not so entirely occupied as formerly. Just now however I am much confined at home on account of the many poor state of Mrs. Canby's eyes which are a cause of great concern and trouble to us. She desires me to give her kindest regards to you and to express the hope in which I cordially join that you may get this way again and visit us.

I had almost forgotten to say that two years ago I put the enclosed Isoetes in a pond or lake (partially artificial) at Delaware Water Gap. Pa. The plant was wholly immersed.

Yours very cordially

Wm. M. Canby

Rec Oct 23d
Ans — 30

Northern Transcontinental Survey

DEPARTMENT OF ECONOMIC BOTANY
Wm. M. Canby, in charge.

Wilmington, Del. Oct. 19th 1882

Dear Dr. Engelmann,

Enclosed are the labels of a few plants I send by mail. I should be glad to know if the Opuntia which is common all over Montana in a variety of forms, is really O. Missouriensis, DC.

As to the Rosae I took them while travelling to be forms of one species. There seemed to be almost every shade of transition. Since I have had a chance to examine them I begin to doubt this. But here they are and you can doubtless tell all about them. If you write about them I can tell which plant you mean if you mention the locality.

I spent yesterday afternoon yesterday with Sargent in Phila. From his acc. it seems that I not only missed you at Davenport but also at St. Paul by but one day! How provoking.

Sincerely Yours,

Wm. M. Canby

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Rec Nov 6
An Dec 29

Wilmington Nov. 2d 1882

Dear Dr. Engelmann

Thanks for yours of Oct. 30th.

"Department of Economic Botany" is Prof. Pumpelly's term - a drapery altogether too extensive for the one infant to be born of the Northern Transcontinental Survey.

I only saw one Opuntia as I suppose and no Mammillaria.

There is no great fun in going over that arid country with the thermometer at 100° Fahr. at noon and almost down to freezing at night; doubtless I shall get tired enough of it before it is done.

As to ~~Buckley's~~ Michauxii I don't

see one once a month. I rarely get into the country except when I can entirely break away which is seldom. Commons will have to do the observing & noting. However I think there are microcarpae of both alba & prinos; and a good deal of variation all round.

I thought that you had pre-empted Rosa & so I sent the specimens to you.

Very truly Yrs

Wm M. Canby

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Rec May 31

Wilmington May 27th 1883

My Dear Dr. Engelmann,

I am truly sorry to hear of your indisposition but now that you are better I do hope that you may very soon regain your usual health and strength. As for the letter you need not have taken the trouble to answer it at all. The matter was very trifling and I felt so sure of the Juncus being J. supiniformis that I put it with my Herb. as such and felt entirely sure when, afterwards, I received it from Pringle.

Profs. Pumpelly & Sargent and I expect to take the field for the North West generally about the middle of July & be absent about two months.

I am sure your European trip will do you good!

Faithfully thy Wm M Canby

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